

## Gulf of Mexico Harmful Algal Bloom Bulletin

9 January 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 5, 2006

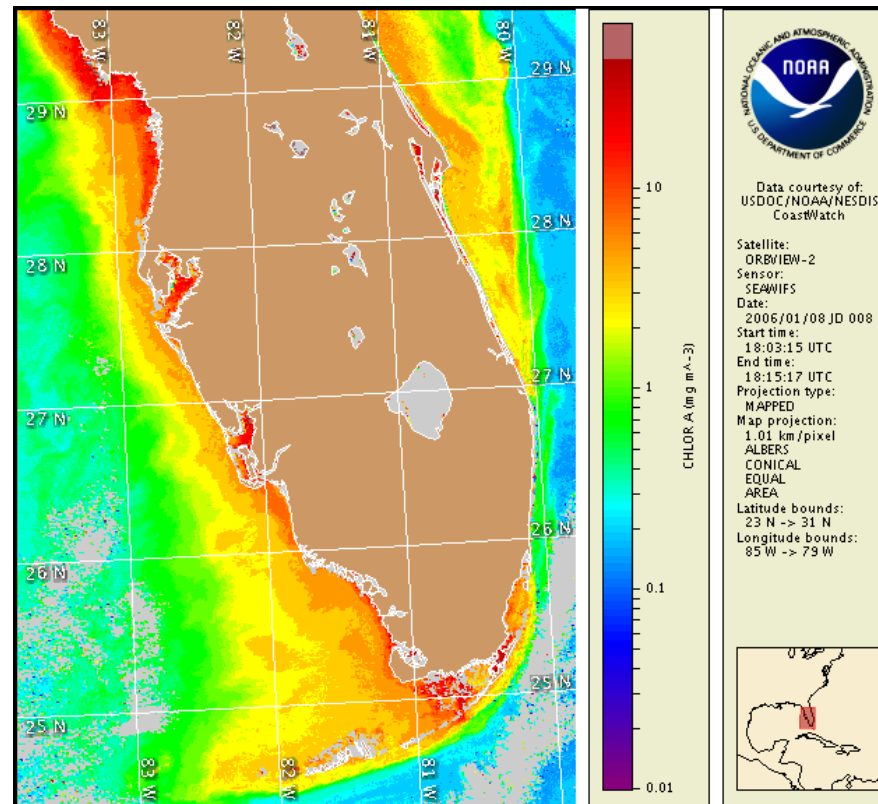
### Conditions Report

Harmful algal blooms have been identified in northern Sarasota and Monroe Counties. Patchy very low impacts are possible through Thursday in northern Sarasota County and gulfside Lower Keys. Patchy low impacts are possible through Thursday in the oceanside Lower Keys. Water discoloration is possible.

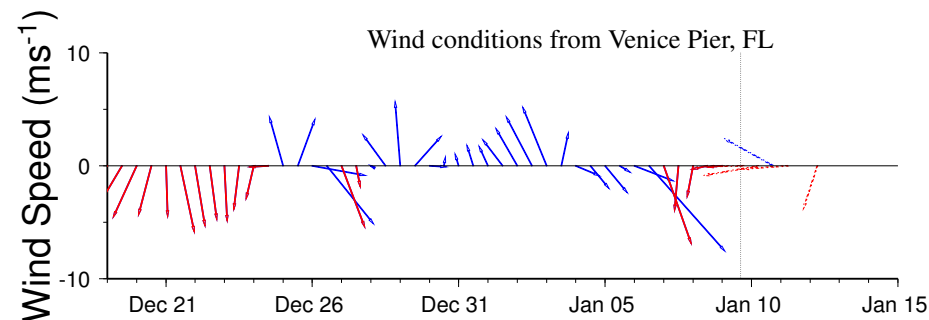
### Analysis

Harmful algal blooms remain in patches in northern Sarasota County and the Lower Keys. Low concentrations of *Karenia brevis* were found last week in Sarasota Bay at New Pass and at three locations north, west and south of the Lower Keys. On 12/31, a medium concentration was found offshore of Pinellas County (FWRI). Imagery from 1/08 shows elevated chlorophyll at several locations: approximately 6  $\mu\text{g/L}$  alongshore from Sanibel to Naples, 4  $\mu\text{g/L}$  alongshore south of Cape Romano, and 7  $\mu\text{g/L}$  in a small patch just northeast of the Lower Keys. Non-harmful species have been found in recent samples from Lee county. Sampling is recommended. East winds this week may cause offshore bloom transport and upwelling off the SW Florida coast, which could intensify the bloom. Onshore transport is possible this week for the oceanside Lower Keys, and offshore transport is possible for the gulfside.

Bronder, Stolz



Satellite chlorophyll image with possible HAB areas shown by red polygon(s).



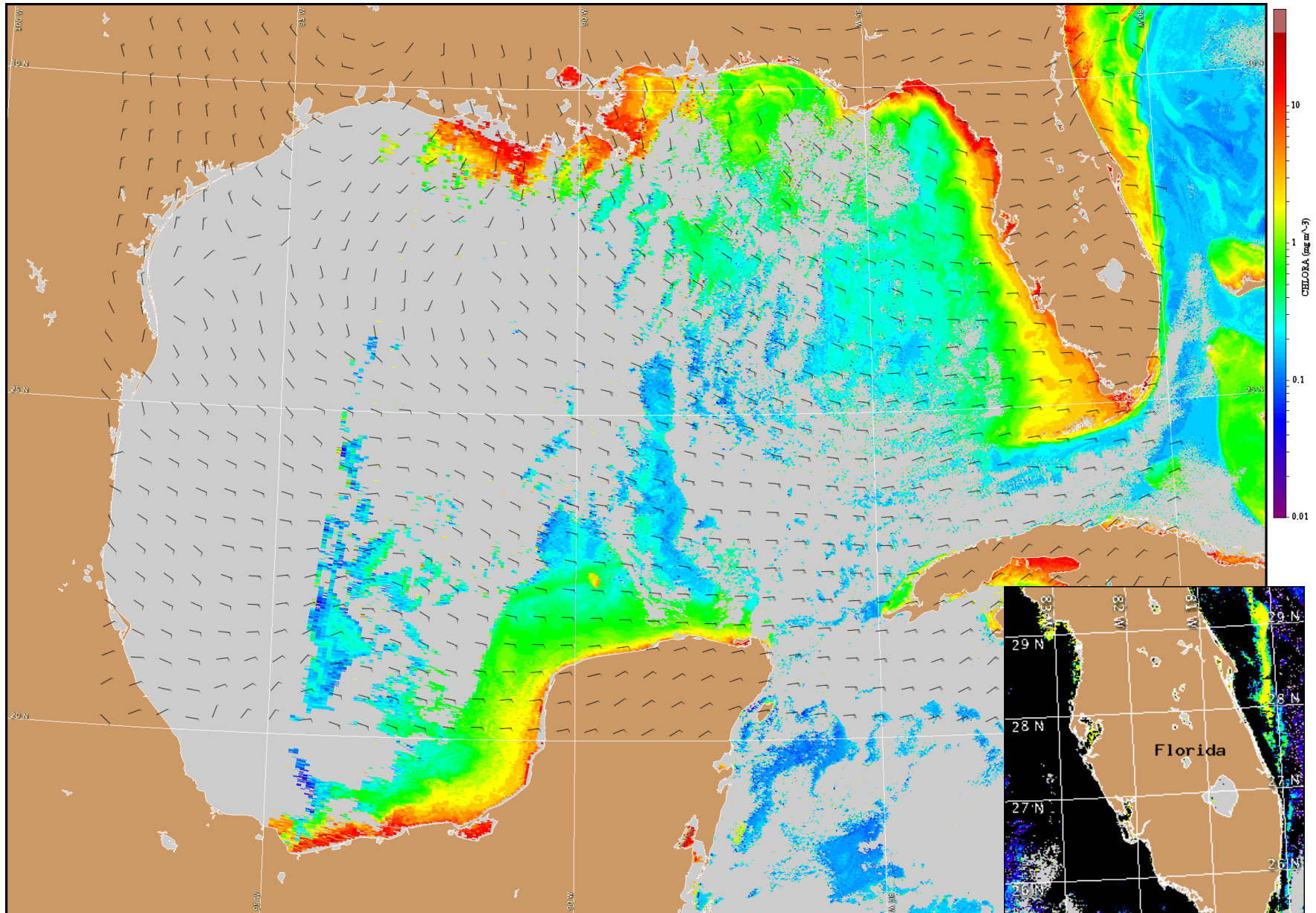
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be east (10 kts, 5 m/s) today through Wednesday, weakening (5 kts, 3 m/s) on Thursday.

Keys: Winds will be east (20 kts, 10 m/s) today and tomorrow, weakening (15 kts, 8 m/s) Wednesday and Thursday.

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Satellite chlorophyll image and forecast winds for January 10, 2006 12Z.

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

